



420.A0

# Computer Science Technology

.....

Computers are used almost everywhere today, in businesses, at home and for the Internet. The computer is a powerful tool for storing and processing information. However, it is only brought to usefulness and apparent life by a program.

A computer program is a carefully thought out, step-by-step, set of instructions prepared by a programmer. Preparation of programs requires analysis, perseverance, and creativity. It is fun as well. It usually requires teamwork and knowledge in areas other than computers.

The Computer Science Technology program includes courses in programming languages, databases, graphical interface design and computer networking. Students learn to develop business websites (e-commerce) and to develop applications (apps) for mobile devices. Included also are English courses, French courses, as well as courses in the humanities, mathematics, business administration, psychology and physical education. Students in their last semester participate in an extensive 45-day internship or "stage" at a variety of companies

of all sizes. Employers regard all aspects of this training as being important for future employees.

Upon graduation, a significant number of students are offered employment with these same companies. As well, students who decide to pursue university studies often come to an arrangement with these companies for part-time employment while they continue their higher education.

This career program is open to qualified students graduating from high school, mature students returning to studies, and to people who are changing their field of study.

# Program Grid

## SEMESTER 1

Applied Math 1  
Programming 1  
Information Systems  
Introduction to Computer Science  
English  
Humanities  
Physical Education

## SEMESTER 2

Applied Math 2  
Business for Computer Science  
Programming 2  
Internet 1  
Introduction to UNIX  
English  
French  
Physical Education

## SEMESTER 3

Data Structures  
Database 1  
Operating Systems  
Internet 2  
English  
French  
Complementary

## SEMESTER 4

.NET Programming  
Graphical and  
Wireless Programming  
Systems Development  
Networks 1  
English  
Humanities

## SEMESTER 5

e-Commerce  
Database Tools  
Advanced Networks  
Program Modifications  
Complementary  
Humanities

## SEMESTER 6

Psychology of the Workplace  
Advanced UNIX  
Internship  
Physical Education

## What can I do after I graduate with a DEC in Computer Science Technology?

Computer Science Technology is a three-year career program that prepares you to work in business, industry and the public sector as a software developer for websites, databases, mobile devices and general business applications. You may also work as a technical support specialist or a network administrator. Computer systems today are more and more complex. Thorough preparation is needed to perform well at jobs in this field.

### Yes, it is possible to continue on to university studies from this program.

Graduates may go on to study not only in I.T. and computer science, but also in such areas as science, architecture, engineering, economics, business administration, mathematics and statistics. Graduates applying to university should consult with an Academic Advisor to know the prerequisites of the program they wish to apply to. At certain institutions, graduates may receive credit for some of their Cegep courses thus reducing the time required to obtain a university degree.

### DEP-DEC Project: Recognition of credits from DEP Computing Support 5729

The Computer Science Technology program 420.A0 has been designed and written in the context of a project to harmonize vocational and technical programs. As a result, it has been harmonized with the vocational education program, Computing Support 5729, offered at Sir Wilfrid Laurier School Board Adult Education. Harmonization optimize students' progress in their training by making it easier for them to go from one program to another or from one level of education to another without duplication of learning content. Some skills acquired during the Computing Support 5729 DEP (Diploma of Vocational Studies) are recognized as equivalent to those acquired in the DEC 420.A0 (Diplôme d'études collégiales).

Computing Support 5729 DEP students reduce their college studies by 615 hours when registering in the Vanier Computer Science Technology program.



## Admission Requirements

Admission to the College is on the basis of the Quebec Secondary School Diploma (*Diplôme d'études secondaires*); or the Quebec Diploma of Vocational Education (*Diplôme d'études professionnelles*) with Secondary 5 first and second languages as well as Secondary 4 Mathematics; or equivalent scholarship completed outside the province.

### Admission to Computer Science Technology for all students requires:

Math TS/SN 506 or Cegep Math 201-015-50 or adult education MTH 5101-5111 (inclusive)

### Admissions Information:

admissions@vaniercollege.qc.ca or  
514.744.7100 or 514.744.7881

### Website:

www.vaniercollege.qc.ca/computer-science-technology  
for more information including Course Descriptions  
and Graduation and Academic standards

### Coordinator:

computerscience@vaniercollege.qc.ca or  
514.744.7500 local 6006

for more information about the  
Computer Science Technology program